qPCR Detection Kits

About GRiSP

Since 2008 located in Porto, Portugal, GRISP empowers life science research by supplying researchers in the growing fields of molecular biology, biotechnology, biochemistry and genetics, with high-quality reagents, kits and solutions.

Dedicated to the development, production and commercialization of cutting-edge as well as everyday products, our team is highly motivated to provide these value-added tools at competitive prices, allowing our customers to drive their research to the next level.

At GRiSP, we strive to the perfect combination of performance, service and costs, always keeping you in mind. We believe this catalogue gives you access to a comprehensive range of products for DNA electrophoresis, Nucleic Acid Purification, PCR, qPCR, RNA research, protein research, cell biology and related areas, which meets your needs to achieve excellent results.

Find out more about us at www.grisp.pt or ask your local distributor, and do not hesitate to contact us with your questions or suggestions, because your feedback matters!


DNA ELECTROPHORESIS


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RNA RESEARCH


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SOLUTIONS

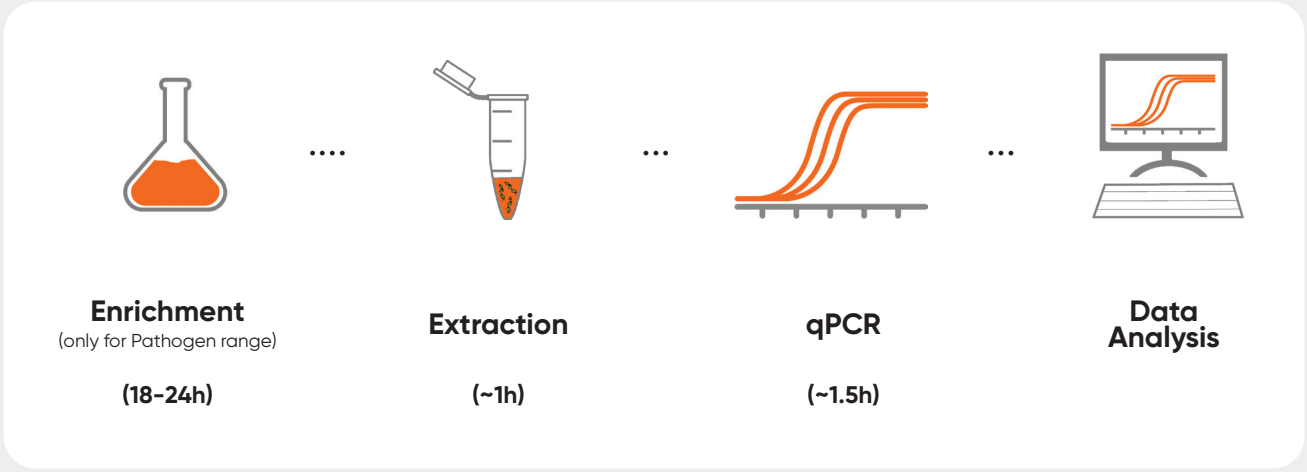

qPCR DETECTION KITS

Food Safety and Fraud are growing global concerns, as pathogens and allergens are ever-increasing causes of foodborne illnesses worldwide.

Identification of species present in food, feed or ingredients is therefore of the utmost importance so that origin can be traced and cleaning processes can be monitored. Moreover, there is an increasing interest in Halal, Kosher, Vegetarian and Vegan food products, for which identification of meat and fish species in foodstuffs is essential.

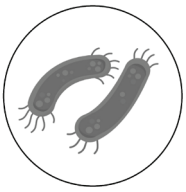
Real-time PCR (qPCR) is the quickest and most accurate method to screen water, beverages, food and foodstuffs for pathogens or allergens. qPCR also allows for the identification of meat and fish as well as the detection of genetically modified organisms (GMOs).

Xpert qDetect qPCR Detection Kits provide a fast and reliable method, with low limit of detection and 100% specificity, based on TaqMan probe real-time PCR reactions that amplify unique species-specific target sequences. The detection kits are compatible with all real-time PCR instruments equipped with FAM (for target) and ROX (for internal control) channels.



PATHOGENS

Pathogens are a major cause of foodborne and waterborne diseases, with an estimated 400,000 deaths every year. Traditional microbiological detection and confirmation methods typically require 4-5 days in order to obtain results. With GRiSP´s qPCR Detection kits this time can be reduce to less than 2 days, allowing taking appropriate action much sooner. After initial pre-enrichment according to ISO norms, contamination can be detected fast and easy,with low L.O.D. and 100% specificity. Kits validated according to ISO 22118:2011.



		Size	Limit Of Detection	Specificity
Xpert qDetect Salmonella spp.	GDK01.0100	100 rxn	1-10 cells / 25g	100%
Xpert qDetect E.coli (EPEC, VTEC and EHEC)	GDK02.0150	50 rxn each	1-10 cells / 25g	100%
Xpert qDetect L. monocytogenes	GDK03.0100	100 rxn	1-10 cells / 25g	100%
Xpert qDetect Vibrio spp.	GDK04.0100	50 rxn each	1-10 cells / 25g	100%
Xpert qDetect Campylobacter jejuni	GDK05.0100	100 rxn	1-10 cells / 25g	100%
Xpert qDetect E. coli Serotypes (O157,O26,O111,O103,O145)	GDK06.0250	50 rxn each	1-10 cells / 25g	100%
Xpert qDetect Cronobacter spp.	GDK08.0100	100 rxn	1-10 cells / 25g	100%
Xpert qDetect Legionella spp.	GDK17.0100	100 rxn	1-10 cells / 25g	100%
Xpert qDetect L. pneumophila	GDK18.0100	100 rxn	1-10 cells / 25g	100%
Xpert qDetect Duplex Legionella spp. and L. pneumophila	GDK19.0100	100 rxn	1-10 cells / 25g	100%

MEAT

Species authenticity can be extremely relevant to consumers for a variety of reasons including economic, medical and religious reasons. Hence, fraudulent substitution by less expensive ingredients, or inclusion of meat in vegetarian products are issues of major concern. Designed for the authentication of species present in unprocessed and processed food products, feed or ingredients, with detection limits of as little as 0.1% of species-specific DNA, even when highly fragmented.

		Size	Limit Of Detection	Specificity
Xpert qDetect Cow	GDK09.0100	100 rxn	0.1% in 100ng total DNA	100%
Xpert qDetect Swine	GDK10.0150	100 rxn	0.1% in 100ng total DNA	100%
Xpert qDetect Horse	GDK11.0100	100 rxn	0.1% in 100ng total DNA	100%
Xpert qDetect Duck	GDK12.0100	100 rxn	0.1% in 100ng total DNA	100%
Xpert qDetect Chicken	GDK13.0100	100 rxn	0.1% in 100ng total DNA	100%
Xpert qDetect Turkey	GDK14.0100	100 rxn	0.1% in 100ng total DNA	100%
Xpert qDetect Goat	GDK15.0100	100 rxn	0.1% in 100ng total DNA	100%
Xpert qDetect Sheep	GDK16.0100	100 rxn	0.1% in 100ng total DNA	100%

WINE

Wines, soft drinks, and dressings can be potentially spoiled by the presence of microorganisms such as yeasts. Traditional microbiological detection methods typically require long incubation times. GRiSP´s qPCR Detection kits allow for an immense time reduction, enabling winemakers and other food producers taking appropriate action much sooner.

		Size	Limit Of Detection	Specificity
Xpert qDetect Brettanomyces/ Dekkera	GDK23.0100	100 rxn	10^2-10^3 cells / 50 ml	100%
Xpert qDetect Zygosaccharomyces bailii	GDK24.0150	100 rxn	10^2-10^3 cells / 50 ml	100%

GMOs

In most countries, usage of GMOs is highly regulated. For the enforcement of national legislation, efficient detection of genetically modified organisms in food and feed products is essential. Taking into account the large diversity of GMOs, GRiSP´s qPCR Detection kits are intended for initial generic screening for the detection of the promotor 35S from cauliflower mosaic virus, the terminator NOS from Agrobacterium tumefaciens and/or the promotor from FigWorth Mosaic Virus (P-FMV), as these regulatory sequences are the most frequent elements present found in transgenic material.

		Size	Limit Of Detection	Specificity
Xpert qDetect P-35S and T-NOS	GDK20.0100	100 rxn each	0.1% in 100ng of GMO DNA	100%
Xpert qDetect P-35S, T-NOS and P-FMV	GDK21.0150	50 rxn each	0.1% in 100ng of GMO DNA	100%
Xpert qDetect P-FMV	GDK22.0100	100 rxn	0.1% in 100ng of GMO DNA	100%

ALLERGENS

The presence of allergens in food is an issue of major concern, as reactions triggered by the ingestion of even minimal doses of food allergens varies but could lead to severe potentially lethal anaphylactic shocks. For the enforcement of national legislation and combat of fraud, efficient identification is essential.
According to the European Commission Directive 2002/86/EC and other national legislations, the most important food allergens must be disclosed on the labels of food products, however, for all kind of reasons, this may not be the case. GRiSP´s qPCR Detection kits allow for the detection of very low amounts of DNA from common food allergens, even when DNA is highly ragmented due to food processing.

		Size	Limit Of Detection	Specificity
Xpert qDetect Celery	GDK25.0100	100 rxn	10 pg / 100ng total DNA	100%
Xpert qDetect Sesame	GDK26.0100	100 rxn	1 pg / 100ng total DNA	100%
Xpert qDetect Peanuts	GDK27.0100	100 rxn	10 pg / 100ng total DNA	100%
Xpert qDetect Soy bean	GDK28.0100	100 rxn	50 pg / 100ng total DNA	100%
Xpert qDetect Hazelnuts	GDK290100	100 rxn	0.1 pg / 100ng total DNA	100%
Xpert qDetect Cashew	GDK30.0100	100 rxn	1 pg / 100ng total DNA	100%
Xpert qDetect Lupin	GDK31.0100	100 rxn	1 pg / 100ng total DNA	100%
Xpert qDetect Mustard	GDK32.0100	100 rxn	10 pg / 100ng total DNA	100%
Xpert qDetect Almond	GDK33.0100	100 rxn	1 pg / 100ng total DNA	92%
Xpert qDetect Walnut	GDK34.0100	100 rxn	0.01 pg / 100ng total DNA	94%
Xpert qDetect Pecan	GDK35.0100	100 rxn	0.01 pg / 100ng total DNA	100%

VISIT OUR WEBSITE FOR PROMOTIONS:

FIND YOU LOCAL DISTRIBUTOR:

Please use one of the following contacts:
email: info@grisp.pt
tel: +351 220 301 599

Postal address:
GRiSP, Lda
Rua Alfredo Allen, 455
4200-135 Porto
Portugal

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